

CLAIMS

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a1
1. A process for the production of a buckling-resistant stove-finished structural member from cold rolled and dressed strip (cold strip) from non-ageing steel with high bake-hardening potential, more particularly of more than 70 N/mm², **characterised in that** the cold strip is converted by dressing into a yield point stretch-free state ($R_{eh}-R_{e1} < 2 \text{ N/mm}^2$), then stored at a temperature below room temperature and further processed into the form of the structural member, whereafter the strip is finally stove finished.

2. A process according to claim 1, **characterised in that** the storage temperature T in K of the cold strip is selected in dependence on the planned storage time t in h in accordance with the equation

$$T = 9225 / (31.48 - \ln (48/t)) \quad [3].$$

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a2
3. A process for the production of a buckling-resistant stove-finished structural member from cold rolled and dressed strip (cold strip) from non-ageing steel with high bake-hardening potential, more particularly of more than 70 N/mm², **characterised in that** the cold strip is stored undressed at room temperature and after the storage time has elapsed is converted by dressing to a yield point stretch-free state ($R_{eh}-R_{e1} < 2 \text{ N/mm}^2$) and then further processed to the form of the structural member, whereafter the structural member is finally stove-finished.